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states:(71) Applicant: **TOYOTA MOTOR CORP**(72) Inventor: **OHASHI YUTAKA  
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**(54) METHOD AND  
APPARATUS FOR ROTARY  
ATOMIZATION  
ELECTROSTATIC  
COATING**

(57) Abstract:

**PURPOSE:** To secure required lightness of metallic coating by setting the relation of both the number of revolutions of a belllike cap and the radius thereof in the specified relation and controlling shaping air so that air velocity of the vertical direction on the surface of a material to be coated is regulated to specified value or more.

**CONSTITUTION:** The relation of both the number of revolutions C (revolution/ second) of a belllike cap 3 and the radius R (m) thereof is set in  $R \times C^2 \leq 5000$  preferably  $R \times C^2 \leq 2000$ . Furthermore shaping air of a rotary atomization electrostatic coating apparatus is controlled so that air velocity of the vertical direction on the surface of a material to be

coated is regulated to  $\geq 10\text{m}/\text{second}$  preferably  $\geq 15\text{m}/\text{second}$ . As a result, breaking and deformation of pigment are inhibited and thereby required lightness can be secured even when metallic coating is coated.

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